DRAFT AGENDA with read-ahead materials noted

National Earthquake Prediction Evaluation Council (NEPEC)

October 16-17, 2017, Graduate Berkeley Hotel, Berkeley, California

Main topics:

- User needs for operational earthquake forecasts
- Coordination of earthquake forecast activities within California and in the Cascadia region
- Development of operational aftershock forecasts, forecast templates, and spatiotemporal forecasts
- Implementation of the ETAS method for computing operational earthquake forecasts
- The UCERF3-ETAS forecasting model method, capabilities, and operational use

Day 1 (October 16, 1:00 to ~6:00 PM)

Introduction:

1:00	Gather, introductions, thanks, logistics, agenda	Bürgmann, Blanpied
1:20	Meeting goals, past NEPEC recommendations	Blanpied
	Read ahead: NEPEC_advice_OEF_Dec2015.pdf	

1. User needs and applications of earthquake forecasts:

1:35	Powell Center workshop findings	Field
2:00	Additional user-needs findings	Hardebeck
2:20	Overview of USGS operational earthquake forecasting strategy and status	Hardebeck
2:50	Forecast experience in New Zealand; communication strategy	McBride
3:10	Discussion	All
3:30	Break	

2. Coordination of operational forecasting and communication:

Introductions, agenda and goals, follow-ups from first day

3:45	Goals of the session	Blanpied, Parrish, Hickman
3:55	California's Earthquake Response Plan	Roeloffs
	Read ahead: California Earthquake Advisory Plan 0615 Draftjdg.doc	
	Read ahead: Roeloffs&Goltz_CA-EQ-AdvisoryPlan_SRL-2017.pdf	
4:15	Updating the California Earthquake Response Plan	Parrish, Arba
4:30	Cascadia Earthquake Communication – plan & recommendations	Gomberg
	Read ahead: Cascadia_Eq-Comm-Plan_Executive-Summary.pdf	
	Optional: Cascadia_Eq-Comm-Plan_Full-report.pdf	
5:00	Discussion	All
~6:00	Adjourn. Dinner in ad hoc groups for those desiring	

Day 2 (October 17, 8:00 AM to ~4:00 PM)

Introduction:

8:00

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3. Op	erational earthquake f	orecasting -	progress	and plans:			
8.20	Testing of the Reasenh	ero and Iones	method			\mathcal{N}	fichael

8:20	Testing of the Reasenberg and Jones method	Michael
8:50	Implementation of ETAS for temporal forecasting	van der Elst
	Read ahead: Helmstetter-etal_Eq-forecast-models-for-SoCal_BSSA-2006.pdf	
9:10	Discussion – seeking approval for use of ETAS in OEF	All
9.45	Break	

Bürgmann, Blanpied

4. Spatiotemporal forecasting and map-based forecasts:

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11:30	Lunch on your own	
10:45	Discussion – seeking comments on map-based operational forecast strategy	All
10:30	Demonstration of a user-tunable forecast map interface	Michael
10:00	Development of spatiotemporal forecast methods	van der Elst

5. The UCERF3-ETAS forecast model for California:

12:45	Overview of the UCERF3-ETAS model and its potential uses	Field
	Read ahead: Field-etal_UCERF3-Synoptic-View_SRL-2017.pdf	
	Read ahead: Field-etal_UCERF3-ETAS_BSSA-2017.pdf	
1:15	"Turing tests" of the model	Page
	Read ahead: Page&vanderElst_UCERF3-ETAS-Turing-tests_submitted.pdf	
1:30	Operational status and use during the 2016 Bombay Beach swarm	Jordan, Page
1:45	Discussion – seeking advice on operational use and further R&D needs	All
2:30	Break	

Executive session:

2:45	Discussion, development of recommendations	NEPEC
~4:00	Adjourn (timing at the discretion of the Council)	

NEPEC:

Roland Bürgmann, UC Berkeley (Chair)

William Leith, USGS, Reston, (Co-chair, not attending)

Gail Atkinson, University of Ontario (not attending)

Cliff Frohlich, Univ. of Texas, Austin

Susan Hough, USGS, Pasadena

Andrew Michael, USGS, Menlo Park

Evelyn Roeloffs, USGS, Vancouver, WA (outgoing member)

Allan Rubin, Princeton University

Katherine Scharer, USGS, Pasadena (incoming member)

Peter Shearer, Univ. of California, San Diego (not attending)

John Vidale, Univ. of Southern California and SCEC

Michael Blanpied, USGS (Secretariat)

Guests:

Ryan Arba, California Office of Emergency Services

John Parrish, California Geological Survey (CEPEC Chair)

Thomas Jordan, Univ. of Southern California and SCEC (CEPEC member)

Edward Field, USGS, Golden

Joan Gomberg, USGS, Seattle (by phone)

Jeanne Hardebeck, USGS, Menlo Park

Stephen Hickman, USGS, Menlo Park

Kenneth Hudnut, USGS, Pasadena (by phone)

Keith Knudsen, USGS, Menlo Park

Forrest Lanning, FEMA Region IX

Sara McBride, USGS, Menlo Park

Morgan Page, USGS, Pasadena (CEPEC member)

Nicholas van der Elst, USGS, Pasadena